

Title (en)  
1,5-Benzoxathiepin derivatives, their production and use.

Title (de)  
1,5-Benzoxathiepin-Derivate, deren Herstellung und Verwendung.

Title (fr)  
Dérivés de 1,5-benzoxathiépine, leur production et usage.

Publication  
**EP 0145494 A2 19850619 (EN)**

Application  
**EP 84308691 A 19841213**

Priority  
• JP 8300436 W 19831214  
• JP 8400168 W 19840404  
• JP 8400526 W 19841101

Abstract (en)  
Novel 1,5-benzoxathiepin derivatives of the formula: <CHEM> [wherein R1 and R2 are independently hydrogen, halogen, hydroxy, lower alkyl or lower alkoxy; R3 and R4 are independently hydrogen, optionally substituted lower alkyl or optionally substituted cycloalkyl or optionally substituted aralkyl, or both jointly form an optionally substituted ring together with the adjacent nitrogen atom; X is hydrogen, optionally substituted lower alkyl, optionally substituted aryl or a carboxyl group which may be esterified or amidated; Y is &rdurule& C=O or &rdurule& CH-OR5 (wherein R5 is hydrogen, acyl or optionally substituted carbamoyl); m is an integer of 0 to 2; n is an integer of 1 to 6] and salts thereof exhibit serotonin S2 receptor blocking activity, calcium antagonism, actions to relieve cerebral vasospasm and to improve renal circulation and diuretic and antithrombotic activities, and are of value as a prophylactic and therapeutic agent for ischemic cardiopathies, thrombosis, hypertension and cerebral circulatory disorders.

IPC 1-7  
**C07D 327/02**; **C07D 411/06**; **C07D 411/12**; **A61K 31/39**; **A61K 31/495**

IPC 8 full level  
**A61K 31/385** (2006.01); **A61K 31/39** (2006.01); **A61K 31/495** (2006.01); **A61P 11/00** (2006.01); **C07D 327/02** (2006.01); **C07D 411/06** (2006.01); **C07D 411/12** (2006.01)

CPC (source: EP KR US)  
**A61P 11/00** (2017.12 - EP); **C07D 327/02** (2013.01 - EP US); **C07D 411/06** (2013.01 - EP KR US); **C07D 411/12** (2013.01 - EP US)

Cited by  
EP0229467A1; EP0667156A1; US5538974A

Designated contracting state (EPC)  
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)  
**EP 0300088 A2 19890125**; **EP 0300088 A3 19890503**; AT E47851 T1 19891115; AU 3646884 A 19850620; AU 570753 B2 19880324; CA 1247613 A 19881228; CA 1258462 A 19890815; CA 1258463 A 19890815; DE 3480397 D1 19891214; DK 166779 B1 19930712; DK 584184 A 19850615; DK 584184 D0 19841207; EP 0145494 A2 19850619; EP 0145494 A3 19860326; EP 0145494 B1 19891108; ES 538517 A0 19870101; ES 551262 A0 19870501; ES 8702399 A1 19870101; ES 8705417 A1 19870501; FI 80029 B 19891229; FI 80029 C 19900410; FI 844940 A0 19841213; FI 844940 L 19850615; GR 81240 B 19850416; HU 201922 B 19910128; HU T38625 A 19860630; IE 58159 B1 19930728; IE 843206 L 19850614; JP H02191271 A 19900727; JP H02191272 A 19900727; JP H045672 B2 19920203; JP H045673 B2 19920203; KR 850004489 A 19850715; KR 910009288 B1 19911109; NO 169773 B 19920427; NO 169773 C 19920805; NO 844993 L 19850617; PH 21851 A 19880325; PH 23423 A 19890807; PH 23651 A 19890927; PT 79666 A 19850101; PT 79666 B 19861210; US 4672064 A 19870609; US 4751316 A 19880614

DOCDB simple family (application)  
**EP 87116048 A 19841213**; AT 84308691 T 19841213; AU 3646884 A 19841210; CA 469996 A 19841213; CA 575739 A 19880825; CA 575740 A 19880825; DE 3480397 T 19841213; DK 584184 A 19841207; EP 84308691 A 19841213; ES 538517 A 19841212; ES 551262 A 19860127; FI 844940 A 19841213; GR 840181240 A 19841212; HU 465784 A 19841213; IE 320684 A 19841213; JP 3237589 A 19890210; JP 3237689 A 19890210; KR 840007941 A 19841214; NO 844993 A 19841212; PH 31583 A 19841214; PH 32900 A 19851008; PH 34714 A 19870113; PT 7966684 A 19841213; US 3878787 A 19870415; US 80680985 A 19851210